

# Parvati Jayakumar

📍 Seattle, WA | Open to relocation across the US | Eligible to work full-time starting May 12, 2025  
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## EDUCATION

<b>University of Washington, Seattle</b> Master of Science in <b>Data Science</b>	<b>Sep 2023 - Mar 2025</b> GPA: <b>3.94/4</b>
<b>Indian Institute of Information Technology Dharwad</b> Bachelor of Technology in Electronics and Communication Engineering <ul style="list-style-type: none"><li>Institute Gold Medal and Department Gold Medal for Academic Excellence</li><li>Made a <u>TENCON 2022 – IEEE Region 10 Conference</u> publication.</li></ul>	<b>Aug 2018 - Aug 2022</b> GPA: <b>4/4</b>

## EXPERIENCE

<b>Graduate Research Assistant</b> UW Scientific Software Engineering Center, eScience Institute <ul style="list-style-type: none"><li>Integrated DeepEval into the <b>OLMo2</b> Retrieval-Augmented Generation (<b>RAG</b>) pipeline, achieving a test score rating of <b>8.3/10</b>, ensuring reliability of search results in support of <u>Vera C. Rubin Observatory</u> research.</li><li>Engineered a fully automated financial disclosure system using <b>Apps Script</b> and <b>Power Automate</b>, processing 100% of disclosures within 24 hours for the <u>UW Office of Research</u> team.</li><li>Pioneered the user interface development of a <b>Flutter app</b> for the <u>Post-Disaster Communications</u> project, enabling field teams to achieve <b>80%+</b> faster data transmission speeds during emergencies.</li></ul>	<b>Sep 2024 - Mar 2025</b> Seattle, WA
<b>Data Science Intern</b> Pearson Packaging Systems <ul style="list-style-type: none"><li>Engineered a Power BI dashboard for the Inventory Department that enabled reporting; improved on-time delivery rates to <b>95%</b> exceeding company targets and cut material costs by <b>50%</b>.</li><li>Spearheaded the <b>Data Warehouse</b> pilot project, establishing a functional instance and creating a detailed <b>Microsoft Fabric</b> implementation plan that aims to reduce potential deployment delays by <b>17%</b>.</li></ul>	<b>Jun 2024 - Sep 2024</b> Spokane, WA
<b>Data Scientist (R&amp;D)</b> MiiCare <ul style="list-style-type: none"><li>Developed and maintained streamlined reports on <b>health data for 300+</b> seniors and disabled individuals, enabling rapid, data-driven assessments for early detection of critical mental and physical health concerns.</li><li>Led the development of MiiVoice, a voice-based mental health prediction system using <b>speech processing</b> and contributed to <b>NLP projects</b>, increasing customer engagement by <b>29%</b> (2021 Dec - 2023 Jun).</li><li>Developed a ML model to classify <b>Acoustic Gait patterns</b> using footstep sounds and achieved <math>\leq 0.71\%</math> relative error compared to IMU and video-based systems (tested on 10 users). (<u>BSN 2023</u>), (<u>arXiv</u>).</li></ul>	<b>Nov 2021 - Jun 2023</b> Remote (London, UK)

## PROJECTS

<b>InsurIQ: Health Insurance Analytics &amp; RAG Dashboard</b> <u>GitHub-reference (Personal Project)</u> <ul style="list-style-type: none"><li>Develop an interactive panel-based dashboard to visualize <b>health insurance data</b>, integrated with a <b>RAG</b> module to accelerate the processing of <b>45+</b> insurance PDF documents to extract key insights for analysis.</li></ul>	<b>Feb 2025 - (Present)</b> Python, Data Analytics, NLP
<b>Biomarker Analysis in VAP Patients</b> <u>GitHub-reference (Masters Capstone Project)</u> <ul style="list-style-type: none"><li>Implemented a <b>LCA clustering algorithm</b> to analyze biomarker expression patterns in VAP patients, categorizing <b>466</b> individuals into distinct risk groups for targeted intervention strategies; (<b>2 publications in progress</b>).</li></ul>	<b>Jan 2025 - Mar 2025</b> Python, Statistics, ML

## SKILLS

**Python**(Pandas, NumPy, Matplotlib, Plotly, Seaborn, scikit-learn, TensorFlow, PyTorch), R, **SQL**, MATLAB, C/C++, **Power BI**, Tableau, SQLite, MySQL, PostgreSQL, Qdrant, MongoDB, SQL Server, Microsoft Fabric, **Azure** (Data Warehousing components, Machine Learning), **AWS**, **Git**, FastAPI, Streamlit, Docker, Kubernetes, **Agile** methodology, Data Analysis, Data Science, Data Engineering, Natural Language Processing, Machine Learning